

# Atlas Software Management Guide

Cloud Execution Environment

USER GUIDE

**Copyright**

© Ericsson AB 2016–2018. All rights reserved. No part of this document may be reproduced in any form without the written permission of the copyright owner.

**Disclaimer**

The contents of this document are subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson shall have no liability for any error or damage of any kind resulting from the use of this document.

**Trademark List**

All trademarks mentioned herein are the property of their respective owners. These are shown in the document Trademark Information.



# Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	Prerequisites	1
<b>2</b>	<b>Atlas Command Overview</b>	<b>2</b>
2.1	Atlas Command and Parameters	2
2.2	Create Backups	4
2.3	List Backups	4
2.4	Restore Backups	5
2.5	Delete Backups	5
2.6	Create OVFT, MISTRAL and HEAT Endpoints in Keystone	6
2.7	Create OVFT, MISTRAL and HEAT Users in Keystone	8
2.8	Help	10
2.9	Version	10
2.10	Update Network	11
2.11	Update HAProxy	11
2.12	Update Certificates	11
2.13	Disable Atlas Heat	12
2.14	Periodic Backups	12
<b>3</b>	<b>Swift Command Overview</b>	<b>14</b>
3.1	Swift Command and Parameters	14
3.2	Download Backup Files	14
3.3	List Backup Files	15
<b>4</b>	<b>Configure Legal Warning</b>	<b>16</b>
<b>5</b>	<b>Manage Atlas Users</b>	<b>18</b>
5.1	Create User	18
5.2	Delete User	18





# 1 Introduction

This document describes how to manage the Atlas software.

## 1.1 Prerequisites

Before starting this procedure, ensure that the following conditions are met:

### 1.1.1 Conditions

The following is required:

- The system is ready to accept logon attempts from users.
- Root access is available for running the `atlas` command.
- Root access is available for running the `swift` command.



## 2 Atlas Command Overview

This section describes the `atlas` command syntax and the use of its command parameters.

### 2.1 Atlas Command and Parameters

The Atlas command suite is implemented by scripting technology. Its purpose is to support software management.

After a successful logon, the `atlas` command and its parameters are available, as shown in Table 1.

Table 1 Atlas Command and Parameters



Command	Parameter	Description
sudo atlas	backup-create --p <password>	Creates a backup of the key configuration files and folders contained in the Atlas image, see Section 2.2 on page 3.
	backup-list	Lists the available backup files, see Section 2.3 on page 4.
	backup-restore --d <id> --p <password>	Restores the key configuration files and folder from a backup, see Section 2.4 on page 4.
	backup-delete --d <id> [--all]	Deletes the Atlas backup identified by the backup ID, see Section 2.5 on page 5.
	cert-create <sup>(1)</sup>	Generates self signed default certificates which are not sufficient <sup>(2)</sup> for a secure TLS communication.
	endpoint-init --host <public_host_ip> <internal_host_ip>	Creates endpoints for OVFT, MISTRAL and HEAT in Keystone, see Section 2.6 on page 6.
	user-init	Creates OVFT, MISTRAL and HEAT users in Keystone, see Section 2.7 on page 8
	--help	Prints the atlas command syntax, see Section 2.8 on page 10.
	--version	Prints the current version of Atlas, see Section 2.9 on page 10.
	update-network <args>	Updates the interfaces of Atlas, see Section 2.10 on page 10.
	update-haproxy <nbi_ip> <sbi_ip>	Updates the haproxy-config files of ovft-api, heat-api, and heat-api-cfn of Atlas, see Section 2.11 on page 11.
	update-cert	Updates the expired certificates on Atlas, see Section 2.12 on page 11.
	disable-heat	Disables Heat from Atlas, see Section 2.13 on page 12.
	periodic-backup	Configures periodic backups, see Section 2.14 on page 12.

(1) Deprecated

(2) For more information on the necessary TLS certificates, refer to the “Conditions” section of the documents SW Installation in Multi-Server Deployment and SW Installation in Single Server Deployment.



## 2.2 Create Backups

The command syntax is as follows:

```
sudo atlas backup-create [--name <backup_name>] =>
--p <password>
```

The optional parameter `--name` is used to set the name of the backup. The default name is `AtlasBackup`. The backup name can only contain letters, numbers, and underscores. No special characters are allowed.

The positional parameter `--p` is used to encrypt backup during backup creation.

To back up the most important files and folders to the current directory, enter the following:

```
atlasadm@atlas:~ $ sudo atlas backup-create =>
--p atlas_password
```

The resulting output is shown in Example 1.

```
Tue 02 May 2017 08:48:23 INFO: Creating Backup "AtlasBackup" with ID=1493707703...
Tue 02 May 2017 08:48:23 INFO: Backing up password configuration, home =>
directories and database...
Tue 02 May 2017 08:48:58 INFO: Done.
Tue 02 May 2017 08:49:05 INFO: Encrypting...
Tue 02 May 2017 08:49:05 INFO: Done.
Tue 02 May 2017 08:49:05 INFO: Uploading Backup "AtlasBackup" of size 654M to =>
Swift...
Tue 02 May 2017 08:49:15 INFO: Done.
Tue 02 May 2017 08:49:15 INFO: Backup Complete!
```

Example 1 Atlas Backup

## 2.3 List Backups

To view the available backup files, enter the following:

```
atlasadm@atlas:~ $ sudo atlas backup-list
```

The resulting output is shown in Example 2.

ID	Name	Storage	Size	Date	Time
1493707703	AtlasBackup	SWIFT	654M	2-May-2017	08:49:05

Example 2 Atlas Backup List





## 2.4 Restore Backups

To restore the most important files and folders from a backup file in the current path, enter the following:

```
atlasadm@atlas:~ $ sudo atlas backup-restore --d =>
1493707703 --p atlas_password
```

The resulting output is shown in Example 3.

```
Tue 02 May 2017 11:37:48 INFO: Starting Atlas restore...
Tue 02 May 2017 11:37:48 INFO: Restoring database...
Tue 02 May 2017 11:37:49 INFO: Done.
Tue 02 May 2017 11:37:49 INFO: Restoring etc-puppet-hieradata-passwords.yaml...
Tue 02 May 2017 11:37:49 INFO: Done.
Tue 02 May 2017 11:37:49 INFO: Restoring home-atlasadm...
Tue 02 May 2017 11:37:49 INFO: Done.
Tue 02 May 2017 11:37:49 INFO: Restoring root...
Tue 02 May 2017 11:37:56 INFO: Done.
Tue 02 May 2017 11:37:56 INFO: Verifying users...
Tue 02 May 2017 11:38:29 INFO: Applying configuration...
Tue 02 May 2017 11:38:47 INFO: Restarting services...
Tue 02 May 2017 11:38:50 INFO: Done.
Tue 02 May 2017 11:38:50 INFO: Successfully restored from backup:1493707703
```

Example 3 Atlas Restore

## 2.5 Delete Backups

To delete an Atlas backup, use the `atlas backup-delete` command with the following syntax:

```
atlas backup-delete --d <id> [--all]
```

The positional parameter `--d` is the ID of the backup.

The optional parameter `--all` can be used to delete the backup from both `/var/archives` and Swift. If this parameter is not specified, the command only deletes the backup from `/var/archives`.

Example 4 shows the command for deleting backup `1493707703` from both `/var/archives` and Swift.

```
atlasadm@atlas:~$ sudo atlas backup-delete --d 1493707703 --all
```

Example 4 Delete Backup - Command

The resulting output is shown in Example 5.



```
Tue 02 May 2017 10:09:20 INFO: Deleting Backup 1493707703
```

```
Tue 02 May 2017 10:09:24 INFO: Backup Delete Complete!
```

ID	Name	Storage	Size	Date	Time
----	------	---------	------	------	------

Example 5

## 2.6 Create OVFT, MISTRAL and HEAT Endpoints in Keystone

To create endpoints in Keystone for OVFT, MISTRAL and HEAT, enter the following:

```
atlasadm@atlas:~ $ sudo atlas endpoint-init ⇒
--host public.atlas.local public.atlas.local
```

The resulting output is shown in Example 6.

Field	Value
description	OpenStack Workflow service
enabled	True
id	c78b349385f442ecbb77bf1292bab18d
name	mistral
type	workflowv2

Deleting existing mistral endpoint  
Creating mistral endpoints

Field	Value
adminurl	https://public.atlas.local:8989/v2
id	a9ef5b440957472985ab895847e3a57d
internalurl	https://public.atlas.local:8989/v2
publicurl	https://public.atlas.local:8989/v2
region	RegionOne
service_id	c78b349385f442ecbb77bf1292bab18d
service_name	mistral
service_type	workflowv2

Deleting existing o0vft endpoint  
Creating ovft endpoints

Field	Value
description	OVF Translator
enabled	True
id	b45768bf8cd8425fa0f9fa5f277aeff2
name	ovft
type	translator



Field	Value
adminurl	https://public.atlas.local:8888/v1/\${tenant_id}s
id	4021bc663b2c493f86d611f428d01fd0
internalurl	https://public.atlas.local:8888/v1/\${tenant_id}s
publicurl	https://public.atlas.local:8888/v1/\${tenant_id}s
region	RegionOne
service_id	b45768bf8cd8425fa0f9fa5f277aeff2
service_name	ovft
service_type	translator

Field	Value
description	Heat Orchestration
enabled	True
id	6efc3f6a09bc404c84970c2bb093acd9
name	heat
type	orchestration

Deleting existing heat endpoint

Creating heat endpoints

Field	Value
adminurl	https://public.atlas.local:8004/v1/\${tenant_id}s
id	dd828421405e417b9e39bf73964573f1
internalurl	https://public.atlas.local:8004/v1/\${tenant_id}s
publicurl	https://public.atlas.local:8004/v1/\${tenant_id}s
region	RegionOne
service_id	6efc3f6a09bc404c84970c2bb093acd9
service_name	heat
service_type	orchestration

Field	Value
description	Heat CloudFormation
enabled	True
id	7cf2431134b84c329913b74e568dc772
name	heat-cfn
type	cloudformation

Deleting existing heat-cfn endpoint

Creating heat-cfn endpoints

Field	Value
adminurl	https://public.atlas.local:8000/v1
id	fc90c2447e9649aa85472fb40b2d55c0



```
| internalurl | https://public.atlas.local:8000/v1 |
| publicurl  | https://public.atlas.local:8000/v1 |
| region     | RegionOne                          |
| service_id | 7cf2431134b84c329913b74e568dc772 |
| service_name | heat-cfn                          |
| service_type | cloudformation                     |
```

Example 6 Atlas Endpoint Init

## 2.7 Create OVFT, MISTRAL and HEAT Users in Keystone

To create users in Keystone for OVFT, MISTRAL and HEAT, enter the following:  
 atlasadm@atlas:~ \$ **sudo atlas user-init**

The resulting output is shown in Example 7.

**Note:** Each time the command is executed, a new user is created after deleting the existing users.

```
+-----+-----+
| Field | Value |
+-----+-----+
| email  | mistral@example.com |
| enabled | True |
| id     | 0d3a48e1cf814e8895ffabc4bd2b3ba1 |
| name   | mistral |
| project_id | 22fd28267ac44929ab70967d5963e1fb |
| username | mistral |
+-----+-----+
+-----+-----+
| Field | Value |
+-----+-----+
| email  | mistral@example.com |
| enabled | True |
| id     | 233283bf2c014604972e4056f32b5bfd |
| name   | mistral |
| project_id | 22fd28267ac44929ab70967d5963e1fb |
| username | mistral |
+-----+-----+
+-----+-----+
| Field | Value |
+-----+-----+
| id    | 5e2b5e5e9a95493080cc86affd190ad1 |
| name  | admin |
+-----+-----+
+-----+-----+
| Field | Value |
+-----+-----+
| email  | ovft@example.com |
| enabled | True |
```



```

| id          | aff611fe263447649950ef007dfb90e1 |
| name        | ovft                                |
| project_id  | 22fd28267ac44929ab70967d5963e1fb |
| username    | ovft                                |
+-----+-----+
+-----+-----+
| Field      | Value                               |
+-----+-----+
| email       | ovft@example.com                   |
| enabled     | True                               |
| id          | 57223f27ac364c429028af3f2f21f351 |
| name        | ovft                                |
| project_id  | 22fd28267ac44929ab70967d5963e1fb |
| username    | ovft                                |
+-----+-----+
+-----+-----+
| Field | Value                               |
+-----+-----+
| id    | 5e2b5e5e9a95493080cc86affd190ad1 |
| name  | admin                               |
+-----+-----+
+-----+-----+
| Field      | Value                               |
+-----+-----+
| email       | heat@example.com                   |
| enabled     | True                               |
| id          | 919bca6fe9c044388c7850738084d245 |
| name        | heat                               |
| project_id  | 22fd28267ac44929ab70967d5963e1fb |
| username    | heat                               |
+-----+-----+
+-----+-----+
| Field      | Value                               |
+-----+-----+
| email       | heat@example.com                   |
| enabled     | True                               |
| id          | 5451d5cc2b5f4658a42260fe6bd1c946 |
| name        | heat                               |
| project_id  | 22fd28267ac44929ab70967d5963e1fb |
| username    | heat                               |
+-----+-----+
+-----+-----+
| Field | Value                               |
+-----+-----+
| id    | 5e2b5e5e9a95493080cc86affd190ad1 |
| name  | admin                               |
+-----+-----+
+-----+-----+
| Field | Value                               |
+-----+-----+
| id    | 7ba93109c5b74cc3b08ac7b980a03d82 |

```



name	heat_stack_user
Field	Value
id	6c74920126324dab862849eedd170898
name	heat_stack_user

Example 7 Atlas User Init

## 2.8 Help

To view the syntax of the atlas command, enter the following:  
 atlasadm@atlas:~ \$ **sudo atlas --help**

The resulting output is shown in Example 8.

```
Atlas Utility Functions ATLAS-CXC1737937_3-R8A06-0 f53b617-1188
usage: /opt/atlas/bin/atlas [options] <argv>...
Options:
--help, -h          show this help message and exit.
--version           show program's version number and exit

user-init           Create ovft and heat users in keystone
endpoint-init       Create endpoints for ovft and heat in keystone
cert-create         Create initial set of self-signed certs
backup-create       Create new Atlas backup
backup-restore      Restore from existing backup
backup-list         List existing backups by date
backup-delete       Delete the backup with given ID
update-network      Update network interfaces of Atlas
update-haproxy      Configure haproxy
update-cert         Update certificates
disable-heat        Disable heat from atlas
periodic-backup     Configure periodic backup
```

Example 8 Atlas Help

## 2.9 Version

To view the exact version of the Atlas Virtual Machines (VMs), enter the following:  
 atlasadm@atlas:~ \$ **sudo atlas --version**

The resulting output is shown in Example 9.

```
Atlas Utility Functions ATLAS-CXC1740414_1-R1A01 efb9960-7030
```

Example 9 Atlas VM Version



## 2.10 Update Network

To update the interfaces of the Atlas VMs, enter the following:

```
atlasadm@atlas:~ $ sudo atlas update-network =>
<nbi_ip> <sbi_ip> <gateway_nbi> <gateway_sbi> =>
<cidr_sbi> <cidr_public> <nbi_mask> <sbi_mask>
```

**Note:** For <cidr\_public>, use cee\_om\_sp, the network used for vCIC northbound communication.

The resulting output is shown in Example 10.

```
atlasadm@atlas:~ $ sudo atlas update-network
10.33.168.4 10.33.168.36 10.33.168.1 10.33.168.33
10.33.168.32/27 10.33.168.96/27 255.255.255.224 255.255.255.224
```

```
ssh stop/waiting
ssh start/running, process 5831
```

Example 10 Atlas Update Network

## 2.11 Update HAProxy

To update the HAProxy configuration files with the Northbound Interface (NBI) and the Southbound Interface (SBI) IPs, enter the following command:

```
atlasadm@atlas:~ $ sudo atlas update-haproxy NBI_IP SBI_IP
```

## 2.12 Update Certificates

To update the expired certificates of Atlas VMs, enter the following command:

```
atlasadm@atlas:~$ sudo atlas update-cert --atlas =>
<path_to_atlas_cert_file> --cee <path_to_nbi_cert_file>
```

The resulting output is shown in Example 11.

```
atlasadm@atlas:~ $ sudo atlas update-cert --atlas /home/atlasadm/atlas.crt
```

Example 11 Update Certificate - Output

New certificates are stored in the following files, in the format below:

```
/etc/ssl/certs/atlas.crt
--BEGIN CERTIFICATE--
<certificate>
--END CERTIFICATE--
--BEGIN PRIVATE KEY--
<private_key>
```



```
--END PRIVATE KEY--

/etc/ssl/certs/atlas.pem
--BEGIN CERTIFICATE--
<certificate>
--END CERTIFICATE--

/etc/ssl/private/atlas.key
--BEGIN PRIVATE KEY--
<private_key>
--END PRIVATE KEY--
```

## 2.13 Disable Atlas Heat

To disable Heat service in Atlas, enter the following:

```
atlasadm@atlas:~ $ sudo atlas disable-heat true
```

**Note:** The `atlas disable-heat` command is not recommended as an Atlas post-installation step. The variable `DISABLE_ATLAS_HEAT` must be set to `true` during Atlas installation in order to disable Heat service. Refer to the [Install Atlas](#) section in the [Atlas SW Installation](#) for more information.

## 2.14 Periodic Backups

To configure periodic backups in Atlas, use the `atlas periodic-backup` command with the following syntax:

```
atlasadm@atlas:~ $ sudo atlas periodic-backup⇒
  [--enable <true|false>] [--time-period <cron>]
                        [--current-password <current_password>⇒
  --new-password <new_password>]
```

Parameter `--enable` is set `true` to create periodic backups and `false` to disable Atlas periodic backups.

Parameter `--time-period` is used to set the time period for taking backups. It is a cron expression. It is not allowed when periodic backup is disabled.

Parameters `--current-password` and `--new-password` are used together to change the periodic backup password. They are not allowed when periodic backup is disabled.

**Note:** All the parameters are optional and can be used together or individually.

### 2.14.1 Enable Periodic Backups

To enable periodic backups, use the following command:

```
atlasadm@atlas:~ $ sudo atlas periodic-backup⇒
  --enable true
```





This command enables periodic backup for Atlas with default time interval and default password specified in `localrc` at the time of installation. For more information, refer to section [Install Atlas in the Atlas SW Installation document](#).

### 2.14.2 Disable Periodic Backups

To disable periodic backups, use the following command:

```
atlasadm@atlas:~ $ sudo atlas periodic-backup⇒  
--enable false
```

This command ensures that no periodic backups are captured.

### 2.14.3 Configure Time Period to Take Periodic Backups

To change the time interval of periodic backups, execute the following command:

```
atlasadm@atlas:~ $ sudo atlas periodic-backup⇒  
--time-period "0 */3 * * *"
```

**Note:** The time period value is a cron expression and needs to be given in quotes.

### 2.14.4 Change Periodic Backup Password

To change the periodic backup password, execute the following command:

```
atlasadm@atlas:~ $ sudo atlas periodic-backup⇒  
--current-password <current_password>⇒  
--new-password <new_password>
```

Command example:

```
atlasadm@atlas:~ $ sudo atlas periodic-backup⇒  
--current-password 'a9a75c#e5' --new-password 'q2k9pDfnc'
```

**Note:** The default password is randomly generated during Atlas installation and can be changed by updating variable `BACKUP_PASSWORD` in `localrc` before Atlas installation. Single quotes are used if any special characters are present in the password.



## 3 Swift Command Overview

This section describes the `swift` command, which is used to upload and download the Atlas backup files.

**Note:** Before the `swift` command can be entered, use `source openrc` for OpenStack credentials and change the user from `atlasadm` to `root`:

```
atlasadm@atlas:~ $ source openrc
atlasadm@atlas:~ $ sudo -i
```

Additionally, the AtlasBackups container must exist in Swift.

### 3.1 Swift Command and Parameters

The syntax of the `swift` command and its parameters are shown in Table 2.

Table 2 Swift Command and Parameters

Command	Parameter	Description
swift	download	Downloads backup files from Swift, see Section 3.2 on page 14
	list	Lists the available backup files in Swift, see Section 3.3 on page 14

### 3.2 Download Backup Files

To download the backup directory from Swift, enter the following:

```
root@atlas:~# cd /var/archives

root@atlas:/var/archives/# swift download AtlasBackups =>
-p <atlas_backupname><id>
```

where `atlas_backupname` is the name of the backup and `ID` is the ID of the backup.

The command input is shown in Example 12.

```
root@atlas:/var/archives# swift download AtlasBackups -p AtlasBackup1520490601
```

Example 12 Swift Download Backup



### 3.3 List Backup Files

To list the backup files in Swift, enter the following:

```
root@atlas:~ # swift list AtlasBackups
```

To achieve an output for a specific ID only, add the following to the command:

```
| grep <id>
```

The command and the resulting output, using a specific ID, is shown in Example 13.

```
root@atlas:~ # swift list AtlasBackups | grep 1520490601
AtlasBackup1520490601/.meta
AtlasBackup1520490601/AtlasBackup.1520490601-all-mysql-databases.sql.bz2.enc
AtlasBackup1520490601/AtlasBackup.1520490601-etc-puppet-hieradata-passwords.⇒
yaml.master.tar.gz.enc
AtlasBackup1520490601/AtlasBackup.1520490601-home-atlasadm.master.tar.gz.enc
AtlasBackup1520490601/AtlasBackup.1520490601-root.master.tar.gz.enc
AtlasBackup1520490601/AtlasBackup.1520490601.sha256.enc
```

Example 13 Swift List Backup



## 4 Configure Legal Warning

This section describes the procedure to configure legal warning for Atlas CLI and GUI.

To configure the legal warning for CLI, follow these steps:

1. Log in as atlasadm user:

```
root@cic-0-1:~# ssh atlasadm@<atlas_sbi_ip>
```

2. Switch user to root:

```
atlasadm@atlas:~$ sudo su  
[sudo] password for atlasadm:  
root@atlas:/home/atlasadm#
```

3. Update the following text in file `/etc/issue` Login to Atlas:

This system is restricted solely to Ericsson authorized users for legitimate business purposes only. The actual or attempted unauthorized access, use, or modification of this system is strictly prohibited by Ericsson. Unauthorized users are subject to Company disciplinary proceedings and/or criminal and civil penalties under state, federal, or other applicable domestic and foreign laws. The use of this system may be monitored and recorded for administrative and security reasons. Anyone accessing this system expressly consents to such monitoring and is advised that if monitoring reveals possible evidence of criminal activity, Ericsson may provide the evidence of such activity to law enforcement officials. All users must comply with Ericsson Security Policy & Requirements regarding the protection of Ericsson information assets.

To configure the legal warning for GUI, follow these steps:

1. Log on as atlasadm user:

```
root@cic-0-1:~# ssh atlasadm@<atlas_sbi_ip>
```

2. Switch user to root:

```
atlasadm@atlas:~$ sudo su  
[sudo] password for atlasadm:  
root@atlas:/home/atlasadm#
```

3. Update following text in file `/usr/local/lib/python2.7/dist-packages/ui_theme/templates/ui_theme/auth/_login_form.html`:



Only authorized users may access the system. Unauthorized users are subject to disciplinary proceedings and/or criminal and civil penalties.

4. Restart the apache2 service by executing the following command:

```
root@atlas:/home/atlasadm# sudo service apache2 restart
```



## 5 Manage Atlas Users

An administrator user can create or delete Atlas users.

### 5.1 Create User

As an administrator user, perform following steps to create a user:

**Note:** The password must be of 14 or more characters with at least one special, numeric, lowercase and uppercase character.

1. Log on to Atlas VM:

```
ssh atlasadm@<atlas_ip>
atlasadm@atlas:~$
```

2. Create a user:

```
atlasadm@atlas:~$ sudo adduser new_user
[sudo] password for atlasadm:
Adding user `new_user' ...
Adding new group `new_user' (1003) ...
Adding new user `new_user' (1003) with group `new_user' ...
Creating home directory `/home/new_user' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for new_user
Enter the new value, or press ENTER for the default
Full Name []:
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n]
```

3. Verify the new user by logging on to Atlas with the new user credentials:

```
ssh new_user@<atlas_ip>
```

### 5.2 Delete User

As an administrator user, perform following steps to delete a user:

1. Log on to Atlas VM:

```
ssh atlasadm@<atlas_ip>
atlasadm@atlas:~$
```



2. Delete the user:

```
atlasadm@atlas:~$ sudo deluser new_user
```

**Note:** The details of all the user logon activities are logged in /var/log/auth.log.